Reply to

Attn. of: WD-139

Memorandum

SUBJECT: Review of Alaska Department of Environmental

Conservation (ADEC) 1994 Section 303(d) List

Crow Creek and Garrison Slough

TO: File

FROM: Curry D. Jones

This letter summarizes the communication I had with EPA personnel, as well as, other federal agencies to determine whether Crow Creek should be listed on the 303(d) list of impaired water bodies.

- 1) I spoke with the U.S. Bureau of Mines in Juneau, AK to determine if any recent evaluation on Crow Creek had been completed with the last six months. Their most recent evaluation on water testing was during the summer of 1994. Unfortunately, results could not be released because the U.S. Forest Service contracted with the Bureau of Mines to do this evaluation. He advised me to contact the U.S.F.S.
- 2) I spoke with Karol Huber of the U.S. Forest Service (Chugash National Forest). Her best professional judgement was that even though Crow Creek has met water quality standards, she thinks that an assessment of this Creek should be conducted in order that the appropriate decision can be made about water body listing. Past mining practices have stampered the Creeks growth. Pellets of mercury have been spotted in the creek which raise some questions about the potential risk of mercury effecting life down stream. Arsenic is a naturally occurring mineral in that area, but tailing from previous mining practices have been found in the creek. She said that she would send me the latest information on the Creek.
- 3) I spoke with Dave Sturdevant on Jan. 17. and he prossed an interesting statement. Mrs. Cynthia Toohey owns one of the abandoned mines which lies several miles downstream from Brenner Mine and Monarch Mine. This mine is currently being used as a

amusement type facility whereby visitors may come and see what actually happens in the mining process. Mrs Toohey has expressed her concerns via comment letter during the public comment period. Since Mrs. Toohey owns the mine, it would really would appease her to not have this waterbody listed.

- 4) I received the information from Karol Huber of the U.S. Forest Service. The document contained several different pieces of information which included a report on Brenner Mine and Monarch Mine. These two mines lie in close proximity of the Creek. A summary of the Environmental Hazard were given for soil and water. Recommendation concluded that water quality was not effected by past placer mining activities.
- 5). Since data on this Creek is very limited, this waterbody should not be listed on the final 303(d) list.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION 1994 STATEWIDE WATER QUALITY ASSESSMENT

WBFile 20(C)

Location or Lat/Long: SW1/4 NW1/4 Soc 16 8 miles from Girdwood nea	
8 miles from Girdwood nea	Seward Meridia
Is the waterbody in a national or state park, monument, refuge,	preserve, or similar area?:
MYes [] No Name: Chugach Natronal For	cs t
Waterbody Type: Waterbody Size:	
River/Stream. Miles	Segment of Waterbody Addressed:
[] Lake Acres	From:To:
[] Fresh Wetland Acres	Other Description:
[] Tidal Wetland Acres	Other Description:
[] Estuary Square Miles	Size of Segment:
[] Coastal Shoreline Miles	Oize of deginent.
[] Groundwater	
T. 1. 10	
Period of Assessment, From: <u>July 18, 1990</u>	To: <u>August 31, 1990</u>
Assessment completed by: Chris Roe, Bureau of Mi	nes and Paral Huber Brest Sarving
	The Care Course process service
Type of Documentation (attach if possible):	
[] Water quality data	⋈ Written report
[] Doormanted all sail	· · · · · · · · · · · · · · · · · · ·
[] Documented oil spill [] NOV / Enforcement action	M Field notes
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their way to or from Eagle River, 26 miles away. A few were hunters looking for game. Many people visit this area thus, its hazards should be given high priority for remediation. See figure 2.

B. PHYSICAL HAZARDS

1. Shafts, pits, trenches;

The portal of the inclined shaft was found next to and 2 feet above the creek. The shaft is flooded up to the portal. The original dimensions were about 5 feet high by 5 feet wide, but soil and debris have sloughed down from above and partially blocked the portal. It appears that a few of the mine timbers are holding up this debris. If this is the case, the timbers could collapse if someone happened to stand on the debris, causing them to fall into the flooded shaft. This is a dangerous situation. Also, the shaft appears to be supported by closely spaced timbers along its length, indicating that the material around it is not very stable. This would be dangerous for anyone attempting to descend into the shaft, because are probably rotten and could possibly fail at any time. See figure 3.

2. Adits and underground workings;

The adit is on the east side of the creek several hundred feet south of the shaft and mill site. The portal is 3 feet wide by 3 feet high and partially flooded. An iron pipe at the portal was discharging water at a rate of approximately 1 gallon per minute. Further investigation of this adit was not done because of its small size. The reported adit on the west side of the creek was not located. More than likely, it has caved in since it was last used.

3. Highwalls;

No man-made highwalls are present at the mine, however, the topography of the area is very steep and in places almost vertical.

4. Impoundments;

No impoundments are at the site.

5. Unexpended explosives;

We found no abandoned explosives at the site.

6. Buildings, equipment;

No buildings remain at the site, however, many pieces of equipment are present, especially in the creek by the mill site. These include a jaw crusher, flat belt pulleys and axles, two pneumatic drills, steel cable, and pieces of scrap metal. See figure 4.

7. Unstable tailings piles or ditches;

No unstable tailings piles are at this site.

8. Timber, ladders;

The inclined shaft contains many timber supports. Practically all of this timber is under water and rotten. The timbers appear to be holding up debris that has fallen into the entrance of the shaft. As this wood rots and loses its strength, it will allow the debris and anyone standing on it to fall into the flooded shaft.

9. Mine gases;

The open adit was not entered because it was so small and wet. The air quality was not checked.

10. Miscellaneous physical hazards;

None.

C. ENVIRONMENTAL HAZARDS

- 1. Mercury, arsenic, cyanide;
 - a. Soil

Close examination of the soil at the mill site showed several tiny beads of mercury. One soil sample was collected from the area 2 feet below the ledge where mill had been located. The result of the laboratory analysis is as follows;

Element

Concentration (parts per million)

Mercury

25.01

This is not as high as one would expect when native mercury is visible in the sample. This may be due to the sampling method used at the laboratory when doing the analysis. Normally, the laboratory technician will thoroughly mix a soil sample and take 2 grams for the actual analysis. Elemental mercury will not disperse evenly through a sample. Thus, a much larger sample of the soil must be analyzed, to increase the probability of analyzing soil which has elemental mercury in it.

The concentration of 25.01 parts per million plus the presence of elemental mercury, however, indicate that very anomalous amounts of mercury are present and should be mitigated.

b. Water

Three water samples were collected from Crow Creek, as follows:

- 1) Sample 1- 100 feet upstream from the mill site,
- 2) Sample 2- next to the mill site, and
- 3) Sample 3- 100 feet downstream from the mill site. See figure 2.

The results are as follows;

Sample	Element	Concentration (parts per million)				
1	Arsenic	<0.08				
2	Arsenic	<0.08				
3	Arsenic	<0.08				
1	Mercury	<0.02				
2	Mercury	<0.02				
3	Mercury	<0.02				

These results indicate that the concentrations of arsenic and mercury are very low and do not change at all when passing by the mill site.

2. Acid forming materials;

A pipe at the portal of the adit is discharging water but there was no visible evidence of acid drainage in the area. Brenner Mine

Heavy metals;

No evidence of heavy metals was found except arsenic and mercury which are discussed above.

4. Asbestos;

There is no indication of asbestos in the area.

5. Radioactive materials;

The underground workings were not tested for radon.

6. Sedimentation:

No sedimentation has occurred at the site.

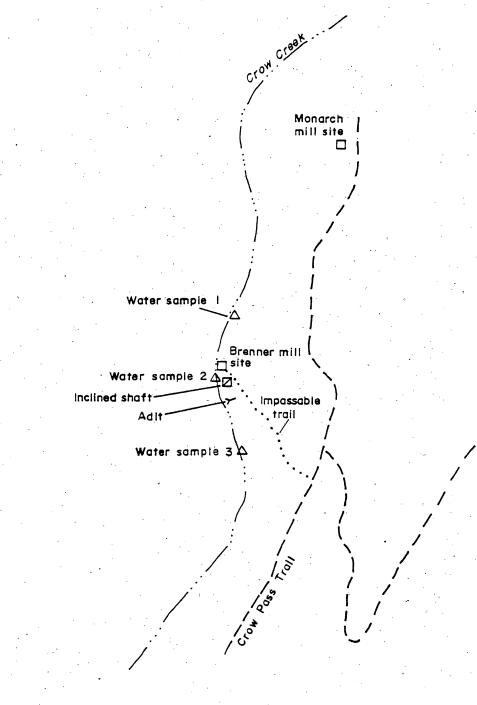
7. Miscellaneous environmental hazards;

None.

D. RECOMMENDATIONS

As a result of the investigation at the Brenner Mine, the following are recommended;

- 1. Warning signs could be displayed around the property to advise the public about the dangerous conditions which are present, especially the inclined shaft.
- 2. A chain link fence could be installed around the inclined shaft as a temporary means of keeping people away from this hazard until a permanent closure is completed.
- 3. Permanent closure of these mine opennings could be considered because they are very hazardous, they will be very expensive to reopen, and there is no known claimant for this property. The openings could be closed by blasting them shut or by backfilling them with earth.
- 4. The smaller pieces of scrap lumber could be disposed of by burning or burying. The scrap metal could be buried or recycled. The large pieces of equipment, such as the crusher and pneumatic drills could be put on display and stabilized so as not to be a toppling or falling hazard.
- 5. Further soil sampling could be done to determine the extent of mercury occurrence in the soil in the mill site. If native mercury is in the soil at the mill site, it is very likely to be in the adjacent creek, too. At least 10 soil or sediment samples should be collected around the mill site and in the



Not to scale

Figure 2.- Sketch map showing the main features of the Brenner Mine area and the locations of the water samples.



CHEMICAL & GEOLOGICAL LABORATORIES OF ALASKA, INC.



5633 B STREET • ANCHORAGE, ALASKA 99518 • TELEPHONE (907) 562-2343 FEDERAL TAX I.D. #92-0040440

ANALYSIS REPORT BY SAMPLE for Work Order # 29056 Date Report Printed: OCT 29 90 @ 19:19

Brenner Mine

Client Sample ID: ANC MH 3305

PWSID :UA

Collected

Received OCT 3 90 @ 15:30 hrs.

Preserved with :AS REQUIRED

Analysis Completed : OCT 10 90

Laboratory Supervisor STEPHEN C. EDE

Released By :

Client Name : US FOREST SRV *ANCHORAGE

'Client Acct : USFRSTP P.O. # NONE RECEIVED

Req #

Ordered By : CAROL HUBER

Send Reports to:

1)US FOREST SRV "ANCHORAGE

2).

Special Instruct:

Chemlab Ref #: 904046 Lab Smpl ID: 5

Matrix: SOIL

Parameter Tested

Method

Allowable

Limits

MERCURY

25.01

mg/kg

λÀ

Sample Remarks:

1 Tests Performed

ND- None Detected

NA = Not Analyzed

See Special Instructions Above

** See Sample Remarks Above

LT-Less Than, GT-Greater Than

UA=Unavailable

UBF, le 20(b)

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY *** Name of Waterbody: _Crow Cre Type/Size: [X] River/Stream	Lac IN CV	eek)	Page 1 of 5/
Name of Waterbody: _Crow Cre	ek	ID#:/	40 20401 013
Type/Size: [V] Diver/Street	_6Miles Acres/	lows to creek GS#:	
Type/Size: [X] River/Stream 	_bmiles	Ghour 3041: (Hectares HQW:	N L M S
[] Fresh Wetland	Acres/	Hectares WQL:	0 - N
[] Tidal Wetland	Acres/	Hectares /	1 - P8
[] Estuary [] Coastal Shorel	Square	Miles (NPS
[] Groundwater	THEMITES		/3 - WQS 4 - Con/Enf
	0	[ADEC	Use Only]
USGS Hydrological Unit #: 19	0-20401		PM
Location or Lat/Long: _Anchor	age, AK		
 Is the waterbody in a nationa	i or state na	ck monument re	· firma
preserve, or similar area?: [Yes, [X] No	o, Name	ruge, –
		And the state of t	
LAA BOORGWANM AAA			7 _
*** ASSESSMENT ***			\mathcal{D}
Assessment Date: Yr _88 , Mo	_04 / By _Jame	es Cross, MOA/DH	HS
Sampling: Begin Yr, Mo	/ End Yr _	, Mo / E	ВУ
Reference for Data: _MOA/DHHS)		
Assessment Type:		Assessment Cat	egory:
[] 1 Qualitative, land use		[] Monitored	
<pre> [] 1 Qualitative, complair [] 2 Predictive models, ur</pre>		[X] Evaluated	(Judgement)
	verified		
[] 4 Fixed station data, E			
[] 5 Effluent toxicity tes	sting		
<pre> '[X] 6 Limited site visit [] 7 Intensive field Asses</pre>	cmont		
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Next Planned Assessment: Yr _	, Mo /	Ву	
Comments:	A.		
Commerces.			

Size-A Size-M Support Partial Not-Sup Cause-% Size-10 Size-No Why?

ADEC, Nonpoint Source Program, Box O, Juneau, AK 99811 / (907) 465-2653

Meets Cl	ean Water Act Goals:		
	shable	г٦	Swimmable
	ot Fishable	[]	
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7		100	
	or Threatened Uses:		
' / /	IR - FRESHWATER	IMP	THR - MARINE
/] Drinking	[]	[] Aquaculture
] Agriculture	[]	[] Seafood Processing
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N = 1] Industry	řī	[] Recreation, Contact
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*** TOXICS ***

Monitored for Toxics: [] Yes ,	[X]	No)	
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Types of Toxics Monitoring:				
[] 1 Organics in water column	ſ	1	10	Metals in sediments
[] 2 Organics in sediments	Ĩ	j	11	Metals in fish tissue
[] 3 Organics in fish tissue	Ī	1	12	Metals in discharges
[] 4 Organics in discharges	Ĩ	j	13	Other inorganics in H2O col
[] 5 Pesticides in water column	L [j	99	Other inorganics in sedimnt
[] 6 Pesticides in sediments	[]	99	Other inorganics in fish ts
[] 7 Pesticides in fish tissue	[Ĭ	14	Other inorganics in dscgs
[] 8 Pesticides in discharges	[j	15	Toxicity testing of water
[] 9 Metals in water column	. [j	16	Toxicity testing of sediment
	Ī	ī	17	Toxicity testing of dscgs

Pollutants: (H = High, M = Medi	um. S = Slight)
	······································
1 Unknown toxicity	
2 Pesticides Type	
3 Priority organics Type	
4 Nonpriority organ Type	
5 Metals Type	
	c enrichment18 Radiation
2 Other increasing 14 m	ty/TDS/Chlor19 Oil and Grease
9 Nutrients 15 Plants	l modificatn20 Taste and Odor
10 pH 16 Ushi+-	lteration H_21 Suspended solids t alteration22 Noxious aqua plants
H_11 Siltation 17 Pathog	t alteration22 Noxious aqua plants
	gens H_23 Filling and drain
Pollutant Categories: (H = High	, M = Medium, S = Slight)
Point Sources	Resource extraction/exploration
1 Industrial	51 Surface mining
2 Minicipal	52 Subsurface mining
3 Municipal pretreatment	H_53 Placer mining
4 Combined sewers	54 Dredge mining -
5 Storm sewers	55 Petroleum activities
 Nonpoint Sources	56 Mill tailings
M_9 Unspecified	57 Mine tailings
> ougheofited	Land Dignogal (Downitted Activity
Agriculture	<pre>Land Disposal (Permitted Activities)61 Sludge</pre>
11 Non-irrig crop production	62 Wastewater
12 Irrigated crop production	63 Landfills
13 Specialty crop production	64 Industrial land treatment
14 Pasture land	65 Onsite wastewater systems
15 Range Land	66 Hazardous waste
16 Feedlots	
17 Aquaculture	<u>Hydromodification</u>
18 Animal holding areas	71 Channelization
	72 Dredging
Silviculture	73 Dam Construction
21 Harvest, restoration	74 Flow regulation/modification
22 Forest management	75 Bridge Construction
23 Road construction/maint	76 Removal of riparian vegetation
 <u>Construction</u>	77 Streambank modification
31 Highway/road/bridge	<u>Other</u>
H_32 Land development	81 Atmospheric deposition
	82 Waste storage/storage tank leaks
<u> Urban Runoff</u>	83 Highway maintenance and runoff
41 Storm sewers	84 Spills
42 Combined sewers	85 In-place contaminants
43 Surface runoff	86 Natural
	87 Recreational activities
Source Unknown	88 Upstream impoundment
90 Source unknown	89 Septic tank seepage

Fish and Shellfish Contamination:

	<pre>[X] 0 None detected [] 1 Contaminated fish [] 2 Fishing advisory [] 3 Fishing ban [] 4 Fish abnormalities [] 5 Shellfish restrictions due to pathogens [] 6 Fish kill</pre>
***	POINT AND NONPOINT SOURCES ***
1	NPDES Permit Number:
	NPDES Permit Name: Causes Nonattainment: [] Yes, [] No. Pollutant
	Causes Nonattainment: [] Yes, [] No, Pollutant
2	NPDES Permit Number:
	NPDES Permit Name:
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	NPDES Permit Name: Causes Nonattainment: [] Yes, [] No, Pollutant
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USFS CHUGACIT MINES

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CROW CLT FALLS CK. JUNEAU CIT.

United States Department of Agriculture

Forest ' Service

Chugach National Forest

3301 "C" Street

Suite 300

Summit Ctr. Anchorage, AK 99503-3998 Bettles Ba

Resurrection CK.

2800/2160 Reply to:

FFB - 1 1995

UCYAKIMEN UF

ENVIRONMENTAL CONSERVATION

mail x mail

Eric Decker Water Quality Managment Section Department of Environmental Conservation 410 Willoughby Ave, Suite 105 Juneau, AK 99801-1795

Re: Requested mine hazard information

Dear Mr. Decker:

Enclosed is the information you requested in a telephone call to Carol Huber, Forest Geologist, on January 24, 1995. It includes reports of inactive mine hazards for the mines which may potentially affect the waterbodies you identified. These waterbodies include the following: Crow Creek, Falls Creek, Juneau Creek, Mills Creek, Summit Creek, Bettles Bay, and Resurrection Creek. In no case has water quality sampling indicated State water quality violations on any of the identified waterbodies.

I understand you have a February 1, 1995, deadline for receipt of these reports. I hope this information meets your needs. If you have questions or further information needs, don't hesitate to contact us again. Call Carol Huber, Forest CERCLA Coordinator, at (907) 271-2541 for additional information concerning Abandoned and Inactive Mine Hazards, or Dave Blanchet, Forest hydrologist at (907) 271-2538, for information concerning water quality on the Forest.

incerely,

FREY

Forest Supervisor

Enclosure

cc:

Dave Blanchet Glacier District Ranger Seward District Ranger RO CERCLA Coordinator, Betsy Walatka RQ Watershed

Mike Keene: RO w/enclosure

Tim Rumsfeld:Alaska Department of Environmental Conservation, w/enclosure

Southcentral Regional Office

Suite 1334 3601 C Street

Anchorage, Ak 99503

Mitch Henning: Alaska Department of Natural Resources, w/enclosure

Division of Mining and Water Management

Suite 822 3601 C. Street

Anchorage, AK 99503

950126 1300 MSW 2160\2800 CH